## IN THE CLAIMS:

- 1. (Currently amended) The A process for spray polymerization in an inert atmosphere of a monomer solution comprising free-radically polymerizable monomers when the wherein a water content of the monomer solution is in the range from 60% to 95% by weight and the a reaction temperature is in the a range from 90 to 300°C.
- 2. (Currently amended) The process according to of claim 1 when wherein the water content of the monomer solution is at least 65% by weight.
- 3. (Currently amended) The process according to of claim 1 when wherein the water content of the monomer solution is at least 70% by weight.
- 4. (Currently amended) The process according to any of the aforementioned claims when claim 1 wherein the reaction temperature is in the range from 150 to 210°C.
- 5. (Currently amended) The process according to any of the aforementioned claims when claim 1 wherein the free-radically polymerizable monomer is acrylic acid and/or, methacrylic acid, or a mixture thereof.

- 6. (Currently amended) The process according to of claim 5 when wherein the acrylic acid and/or, methacrylic acid, or mixture thereof is at least 40% neutralized.
- 7. (Currently amended) The process according to any of claims claim 1 to 4 when wherein the free-radically polymerizable monomer is a mixture of acrylic acid and potassium acrylate.
- 8. (Currently amended) Water swellable polymers obtainable A water-swellable polymer prepared by a the process according to claims of claim 1 to 7.
- 9. (New) The process claim 2 wherein the reaction temperature is in the range from 150 to 210°C.
- 10. (New) The process of claim 3 wherein the reaction temperature is in the range from 150 to  $210^{\circ}\text{C}$ .
- 11. (New) The process of claim 2 wherein the free-radically polymerizable monomer is acrylic acid, methacrylic acid, or a mixture thereof.
- 12. (New) The process of claim 11 wherein the acrylic acid, methacrylic acid, or mixture thereof is at least 40% neutralized.
- 13. (New) The process of claim 3 wherein the free-radically polymerizable monomer is acrylic acid methacrylic acid, or a mixture thereof.

- 14. (New) The process of claim 13 wherein the acrylic acid, methacrylic acid, or mixture thereof is at least 40% neutralized.
- 15. (New) The process of claim 4 wherein the free-radically polymerizable monomer is acrylic acid, methacrylic acid, or a mixture thereof.
- 16. (New) The process of claim 15 wherein the acrylic acid, methacrylic acid, or mixture thereof is at least 40% neutralized.
- 17. (New) The process of claim 2 wherein the free-radically polymerizable monomer is a mixture of acrylic acid and potassium acrylate.
- 18. (New) The process of claim 3 wherein the free-radically polymerizable monomer is a mixture of acrylic acid and potassium acrylate.
- 19. (New) The process of claim 4 wherein the free-radically polymerizable monomer is a mixture of acrylic acid and potassium acrylate.
- 20. (New) The water-swellable polymer of claim 8 wherein the free-radically polymerized monomer is acrylic acid, methacrylic acid, or a mixture thereof.